

Abstract of the Disclosure

An automated-protection-switching (APS) software suite for
distribution over multiple processors of a distributed processor router has an
APS server module running on a first one of the multiple processors for
managing communication and distributing configuration and state
information and APS client modules running on second ones of the multiple
processors, the APS client modules for monitoring interface state
information, reporting to the APS server application, and for negotiating
with other APS client modules. The software is characterized in that APS
interface relocation from a primary interface to a backup interface is
performed through direct communication between the APS client modules
running on the processors supporting the involved interfaces.